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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,807	04/05/2004	Hiroshi Ueda	251305US3	5015
22850	7590 11/30/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			SORKIN, DAVID L	
	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1723	

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/816,807	UEDA ET AL.
Office Action Summary	Examiner	Art Unit
	David L. Sorkin	1723
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 01 No.	ovember 2004.	
2a) This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.	
3) Since this application is in condition for allowar	·	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.
Disposition of Claims		
<ul> <li>4) ☐ Claim(s) 1-5 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 1 and 3-5 is/are rejected.</li> <li>7) ☐ Claim(s) 2 is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or</li> </ul>		
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 04 & 11/2004.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 3-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Caspelherr et al. (US 5,547,277). Caspelherr ('277) discloses a screw with a heat exchange function comprising a heat exchange medium chamber (14) located at a center section in the radial direction of said screw, said chamber running along the lengthwise direction of said screw (see Fig. 1); and a head exchange medium supply pipe (21, 22 and the portion to the right of 21 as seen in Fig. 1) supplying a heat exchange medium, said heat exchange medium supply pipe being stored in said heat exchange medium chamber; wherein said heat exchange medium supply pipe comprises split pipes and is split into two or more sections in the lengthwise direction, said pipe connecting means (21) bendably connects said split pipes (see Fig. 1). Regarding claim 3, said pipe connecting means is a bendable bellows (21). Regarding claim 4, a mixer comprises a barrel (20) and the screw discussed above with regard to claim 1 rotatably fit in said barrel. Regarding claim 5, an extruder comprises a barrel (20) and the screw discussed above with regard to claim 1 rotatably fit in said barrel.

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### Allowable Subject Matter

3. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Sorkin whose telephone number is 571-272-1148. The examiner can normally be reached on 9:00 -5:30 Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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David L. Sorkin Primary Examiner Art Unit 1723

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